



(1) **EU-Type Examination Certificate**

(2) Equipment or protective system intended for use in potentially explosive atmospheres - **Directive 2014/34/EU**

(3) Certificate number: **SEV 11 ATEX 0201 X**

(4) Product: Pressure Transmitter
Type 8292.XX.XXXX.XX.XX.XX...
and 8432.XX.XXXX.XX.XX.XX...

(5) Manufacturer: Trafag AG, Sensors and Controls

(6) Address: Industriestrasse 11, 8608 Bubikon, SWITZERLAND

(7) The equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) Electrosuisse SEV, notified body No. 1258, in accordance with article 17 of Directive 2014/34/EU of the European parliament and of the council, dated 26 February 2014, certifies that this product has been found to comply with the essential health and safety requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report no 09-IK-0395.01 + E1 + E2

(9) Compliance with the essential health and safety requirements has been assured by compliance with:

EN 50303:00

EN 60079-0:12 + A11:13

EN 60079-11:12

EN 60079-26:15

Except in respect of those requirements listed at item 18 of the schedule.

(10) If the sign «X» is placed after the certificate number, it indicates that the product is subjected to special conditions for safe use specified in the schedule to this certificate.

(11) This EU type examination certificate relates only to design and construction of the specified product. Further requirements of this directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the product shall include the following:

See appendix page 5

Electrosuisse
Notified Body ATEX

Martin Plüss
Product Certification



(13)

Appendix

(14)

EU-Type Examination Certificate no. SEV 11 ATEX 0201 X

(15) **Description of product**

Pressure transmitter for the measurement of various kinds of pressures such as, air pressure, Oil pressure, etc. The product family includes a "submersible pressure transmitter". The physical print size is converted into an electrical quantity ("Current Loop"; 4 ... 20mA).

Type reference: 8292. XX.XXXX.XX.XX.XX... and 8432. XX.XXXX.XX.XX.XX...

The points X in the type reference are replaced by mark of variants, which are defined in the manufacturing respectively in the test documents and in the approval document as well.

Ratings:

Ui = 30.0 V, Ii = 100 mA, Pi = 1.0 W, Ci = 23 nF, Li = 0 mH

Classification of installation and use :	stationary
Ingress protection:	IP6X (IP65)
Rated ambient temperature range (°C):	Types 8292.XX.XXXX.02, 05, 35 and 78: -40 °C...+65 °C for T6 {EPL Ga} -40 °C...+120 °C for T4 {EPL Ga}
	Type 8292.XX.XXXX.14: -30 °C...+65 °C for T6 {EPL Ga} -30 °C...+95 °C for T4 {EPL Ga}
	Type 8292.XX.XXXX.80: -40 °C...+65 °C for T6 {EPL Ga} -40 °C...+80 °C for T4 {EPL Ga}
	Type 8432.XX.: -20 °C...+65 °C for T6 {EPL Ga} -20 °C...+70 °C for T4 {EPL Ga}
	Type 8292.XX... -20 °C...+120 °C for T130 °C {EPL Da}

Type designation EXL 8292

							8292 . XX	XX	XX	XX	XX	XX	
Measuring range ¹⁾	Pressure measurement range [bar]	Over pressure [bar]	Burst pressure [bar]		Pressure measurement range [bar]	Over pressure [bar]	Burst pressure [bar]						
	0 ... 0.4 ²⁾	1.2	25	69	0 ... 40	80	300	81					
	0 ... 0.6 ²⁾	1.5	25	70	0 ... 60	120	500	82					
	0 ... 1.0 ²⁾	2.0	25	71	0 ... 100	200	500	83					
	0 ... 1.6	3.5	80	73	0 ... 160	320	1000	85					
	0 ... 2.5	5	100	75	0 ... 250	500	1000	74					
	0 ... 4	8	100	76	0 ... 400	800	1500	84					
	0 ... 6	12	100	77	0 ... 600	1000	2000	86					
	0 ... 10	20	200	78	0 ... 1000	1600	3000	88					
	0 ... 16	32	200	79	0 ... 1600	3000	4000	89					
0 ... 25	50	300	80	0 ... 2000	3000	4000	90						
Sensor	Relative pressure, accuracy: 0.3% (> 1 bar)							23					
	Relative pressure, accuracy: 0.5% (> 1 bar)							25					
	Relative pressure, accuracy: 0.5% (≤ 1 bar)							26					
	Relative pressure, accuracy: 0.5%, wetted parts hydrogen compatible ⁷⁾							35					
	Relative pressure, accuracy: 0.3%, wetted parts hydrogen compatible ⁷⁾							33					
Pressure connection	G 1/4" male ²⁾							17					
	G 1/4" female ²⁾							10					
	G 1/2" male ²⁾							21					
	G 1/2" male DIN 16288-8 (Manometer) ²⁾							11					
	R 1/4" male ²⁾							19					
	1/4" NPT male ²⁾							30					
	M 18x1.5 male (conical seal 58°) ²⁾							29					
Electrical connection	Male electrical plug EN 175301-803-A, plastic (only zones 1, 2 (gas) and 20, 21 (dust))							05					
	Male electrical plug M12x1, 5-pole, metal							35					
	Male electrical plug MIL-C 26482, 6-pole, metal ⁵⁾							02					
	Male electrical plug Binder 723, 5-pole, metal							14					
	Cable with shield, material FDR 25 (Raychem), 4 x 0.5mm ² (cable length see "Accessories") - not ship approved							78					
	Cable intrinsically safe with shield, material PVC, 2 x 0.75mm ² (-40 ... +80°C), (cable length see "Accessories") - not ship approved							80					
Output signal	Signal output	Load resistance	I (supply)		U (supply)								
	4 ... 20mA	(U _{supply} -10V) / 20 mA			10 ... 30 VDC						19		
Accessories	Female electrical connector EN 175301-803-A (DIN43650-A), plastic (only zones 1, 2 (gas) and 20, 21 (dust))							58	Cable length 1.5 m ⁶⁾			1M	
	Female electrical plug M12x1, 5-pole, plastic (only zones 1, 2 (gas) and 20, 21 (dust))							33	Cable length 3.0 m ⁶⁾				3M
	Female electrical plug M12x1, 5-pole, metal							35	Cable length 5.0 m ⁶⁾				5M
	Female electrical connector MIL-C 26482, 6-pole, metal							32	Special electrical connection: Pin 1 + , Pin 2 - (only for output signal 4...20mA and male electrical plug EN 175301-803-A / DIN43650-A)				92
	Female electrical connector Binder 723, 5-pole, metal							37	Zener barrier 28V/93mA, R ≈ 300Ω : Ordering no ZEN28VDC				
	Pressure peak damping element ø 0.4 mm							44	Damping elements and snubber see data sheet H72258				
	Pressure peak damping element ø 1.0 mm							40					

¹⁾ Extended overpressure as well as customized pressure ranges upon request

²⁾ Only with sensor 26 (0.5%)

³⁾ For pressure ranges ≤ 600 bar

⁴⁾ For pressure ranges > 600 bar

⁵⁾ For pressure ranges < 40 bar upon request

⁶⁾ Other cable lengths upon request

⁷⁾ Pressure ranges 0 ... 40 to 0 ... 1000 bar

Type designation EXL 8432

				8432 . XX	XX	XX	XX	XX	XX
Measuring range¹⁾	Pressure measurement range [bar]	Over pressure [bar]	Burst pressure [bar]						
	0 ... 0.2	1.2	2	68					
	0 ... 0.4	1.2	2	69					
	0 ... 0.6	2	3	70					
	0 ... 1.0	3.2	4.8	71					
	0 ... 1.6	3.2	4.8	73					
	0 ... 2.5	5	7.5	75					
	0 ... 4	8	12	76					
	0 ... 6	12	15	77					
0 ... 10	20	25	78						
Sensor	Relative pressure > 400 mbar, Accuracy: 0.3%			23					
	Relative pressure ≤ 400 mbar, Accuracy: 0.5%			26					
Pressure connection	Type 1, female, M 10x1, 1.4404/1.4435				46				
	Type 2, male, M 22x1, 1.4404/1.4435				48				
Electrical connection	Cable with shield: PUR ø 6 mm, 5x0.22mm ^{2,2)}					22			
	Cable with shield: FEP ø 6 mm, 5x0.22mm ^{2,2)}					32			
	Cable with shield: PE ø 6 mm, 5x0.22mm ^{2,2)}					42			
Output	Signal output	Load resistance	I (supply)	U (supply)					
	4 ... 20mA	(U _{supply} -10V) / 20mA		10 ... 30 VDC				19	
Accessories	Seal FKM								61
	Seal EPDM								63
	Zener barrier 28V/93mA; R ≈ 300Ω; Ordering no ZEN28VDC								

¹⁾ Extended overpressure as well as customized pressure ranges upon request

²⁾ Please specify cable length when ordering (cable lengths > 50 m up to 120 m upon request)

³⁾ For level measurement applications on ships under certification GL (German Lloyd), the cable of such transmitters must be installed inside the tank only

(16) **Report number** 09-IK-0395.01 + E1 + E2

(17) **Specific conditions of use**

The intrinsically safe circuit has to be limited to overvoltage category I, as defined in IEC 60664-1 respectively the supply of the circuit's comes entirely from an intrinsically safe power source with a level of protection "ia".

(18) **Essential health and safety requirements**

In addition to the essential health and safety requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
None	

(19) **Drawings and Documents**

See test report "Manufacturer's Documents"

(20) **Marking**



II 1G Ex ia IIC T4/T6 Ga
II 1/2G Ex ia IIC T4/T6 Ga/Gb (version with plastic connector)
II 1D Ex ia IIC T130 °C Da
I M1 Ex ia I Ma